

FORM PTO-1449 (REV. 7-80) <b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b>  September 21, 2001		ATTY. DOCKET NO. 1855.1048-010	SERIAL NO.
		APPLICANT Shixin Qin, et al.	
		FILING DATE September 21, 2001	GROUP

## U.S. PATENT DOCUMENTS

EXAM- INER INI- TIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
✓	AA	5,440,021	08/08/95	Chuntharapai, et al.	530	388.22	JCE57 U.S. Pat. No. 09/2101
✓	AB	5,543,503	08/06/96	Chuntharapai, et al.	530	388.22	09/2101
✓	AC	5,545,806	08/13/96	Lonberg, et al.	800	2	
✓	AD	5,545,807	08/13/96	Surani, et al.	800	2	
✓	AE	5,652,133	07/29/97	Murphy	435	325	
✓	AF	5,677,184	14 Oct 1997	Onda, et al.	435	360	
	AG						
	AH						
	AI						
	AJ						
	AK						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
✓	AL	WO 98/38167	03 Sep 1998	PCT	✓	—	
✓	AM	WO 94/11504	26 May 1994	PCT	—	—	
✓	AN	WO 95/08576	30-MAR-95	PCT	—	—	XX
✓	AO	WO 99/15666	01-APR-99	PCT	—	—	
✓	AP	DE 43 32 256 C1	09-MAR-95	DE	—	—	XX
✓	AQ	WO 98/44953	15 Oct 1998	PCT	—	—	

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

✓	AR	Pease, James E., et al., "The N-terminal Extracellular Segments of the Chemokine Receptors CCR1 and CCR3 Are Determinants for MIP-1 $\alpha$ and Eotaxin Binding, Respectively, but a Second Domain Is Essential for Efficient Receptor Activation", <i>The Journal of Biological Chemistry</i> , 273(32):19972-19976 (1988)
✓	AS	Su, Shao-bo, et al., "Determination of Expression of a C-C Chemokine Receptor, CC CKR1 on Leukocytes", 6th International Workshop and Conference on Human Leukocyte Differentiation Antigens, Kobe, Japan, November 10-14, 1996, <i>Tissue Antigens</i> , 48(4-2):389 (1996) Abstract No. CR-1-07
✓	AT	Su, Shao-bo, et al., "Selective Inhibition of BFU-E Proliferation by Macrophage Inflammatory Protein (MIP)-1 $\alpha$ by Interacting Mainly with CCR1" (from <i>Nippon Neneki Gakkai Sokai Gakujutsu Shukai Kiroku</i> , 27:287 (1997) Abstract No. 2P76)

EXAMINER	✓	DATE CONSIDERED
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2	AU	Su, Shao-bo, et al., "Inhibition of Immature Erythroid Progenitor Cell Proliferation by Macrophage Inflammatory Protein-1 $\alpha$ by Interacting Mainly With a C-C Chemokine Receptor, CCR1", <i>Blood</i> , 90(2):605-611 (1997)
2	AV	Murakami, Seishi, et al., "Human Hepatitis Virus X Gene Encodes a Regulatory Domain That Represses Transactivation of X Protein", <i>The Journal of Biological Chemistry</i> , 269(21):15118-15123 (1994)
2	AW	Su, Shao-bo, et al., "Preparation of Specific Polyclonal Antibodies to a C-C Chemokine Receptor, CCR1, and Determination of CCR1 Expression on Various Types of Leukocytes", <i>Journal of Leukocyte Biology</i> , 60:658-666 (1996)
2	AX	Sallusto, Federica, et al., "Rapid and Coordinated Switch in Chemokine Receptor Expression During Dendritic Cell Maturation", <i>Eur. J. Immunol.</i> , 28:2760-2769 (1998)
2	AY	Neote, Kuldeep, et al., "Molecular Cloning, Functional Expression, and Signaling Characteristics of a C-C Chemokine Receptor", <i>Cell</i> , 72:415-425 (1993)
2	AZ	"Flow Cytometry Kits for Cell Surface Staining" [online] 1998 [retrieved on 10/28/98]. Retrieved from the Internet:<URL: <a href="http://cytokine.rndsystems.com/search/mfs/02/subdoc/flow.html">http://cytokine.rndsystems.com/search/mfs/02/subdoc/flow.html</a>
2	AR2	"Antibodies to Cytokines and Cytokine Receptors (A-H)" [online] 1998 [retrieved on 10/28/98]. Retrieved from the Internet:<URL: <a href="http://cytokine.rndsystems.com/search/mfs/02/subdoc/anti.html">http://cytokine.rndsystems.com/search/mfs/02/subdoc/anti.html</a>
2	AS2	Schall, Thomas J., et al., "Molecular Cloning and Expression of the Murine RANTES Cytokine: Structural and Functional Conservation Between Mouse and Man", <i>Eur. J. Immunol.</i> , 22:1477-1481 (1992)
2	AT2	Forssmann, Ulf, et al., "CK $\beta$ 8, A Novel CC Chemokine That Predominantly Acts on Monocytes", <i>FEBS Letters</i> , 408:211-216 (1997)
2	AU2	Gong, Xiaoqi, et al., "Monocyte Chemoattractant Protein-2 (MCP-2) Uses CCR1 and CCR2B as Its Functional Receptors", <i>The Journal of Biological Chemistry</i> , 272(18):11682-11685 (1997)
2	AV2	Youn, Byung-S., "Molecular Cloning of Leukotactin-1: A Novel Human $\beta$ -Chemokine, a Chemoattractant for Neutrophils, Monocytes, and Lymphocytes, and a Potent Agonist at CC Chemokine Receptors 1 and 3", <i>J. Immunol.</i> , 159:5201-5205 (1997)
2	AW2	Youn, Byung-S., et al., "Characterization of CK $\beta$ 8 and CK $\beta$ 8-1: Two Alternatively Spliced Forms of Human $\beta$ -Chemokine, Chemoattractants for Neutrophils, Monocytes, and Lymphocytes, and Potent Agonists at CC Chemokine Receptor 1", <i>Blood</i> , 91(9):3118-3126 (1998)
2	AX2	Nomura, Hideki, et al., "Molecular Cloning of cDNAs Encoding a LD78 Receptor and Putative Leukocyte Chemoattractant Peptide Receptors", <i>International Immunology</i> , 5(10):1239-1249 (1993)
2	AY2	Gao, Ji-Liang, et al., "Structure and Functional Expression of the Human Macrophage Inflammatory Proteins 1 $\alpha$ /RANTES Receptor", <i>The Journal of Experimental Medicine</i> , 177:1421-1427 (1993)
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	DATE CONSIDERED 6-10-09	

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
<i>2</i>	AZ2	Bonecchi, Rafaella, et al., "Up-Regulation of CCR1 and CCR3 and Induction of Chemotaxis to CC Chemokines by INF- $\gamma$ in Human Neutrophils", <i>The Journal of Immunology</i> , 162(1):474-479 (1999)	
<i>✓</i>	AR3	Osbourne, J., et al., "Directed selection of MIP-1 $\alpha$ neutralizing CCR5 antibodies from a phage display human antibody library", <i>Nature Biotechnology</i> , 16: 778-781 (1998).	
<i>2</i>	AS3	Jakobovits, A., et al., "Analysis of homozygous mutant chimeric mice: Deletion of the immunoglobulin heavy-chain joining region blocks B-cell development and antibody production", <i>Genetics</i> , 90: 2551-2555 (1993).	
<i>✓</i>	AT3	Jakobovits, A., et al., "Germ-line transmission and expression of a human-derived yeast artificial chromosome", <i>Nature</i> , 362: 255-258 (1993).	
<i>2</i>	AU3	Sato, K., et al., "CC Chemokine Receptors, CCR-1 and CCR-3, are Potentially Involved in Antigen-Presenting Cell Function of Human Peripheral Blood Monocyte-Derived Dendritic Cells", <i>Blood</i> 93(1):34-42 (1999)	
<i>✓</i>	AV3	Durig, J. et al., "Expression of Macrophage Inflammatory Protein-1 $\alpha$ Receptors in Human CD34 $^{+}$ Hematopoietic Cells and Their Modulation by Tumor Necrosis Factor- $\alpha$ and Interferon- $\gamma$ ", <i>Blood</i> 92(9):3073-3081 (1998)	
<i>2</i>	AW3	Johnston, B. et al., "Chronic Inflammation Upregulates Chemokine Receptors and Induces Neutrophil Migration to Monocyte Chemoattractant Protein-1", <i>Journal of Clinical Investigation</i> 103(9):1269-1276 (1999)	
<i>2</i>	AX3	Förster, R., et al., "A general method for screening mAbs specific for G-protein coupled receptors as exemplified by using epitope tagged BLR1-transfected 293 cells and solid-phase cell ELISA," <i>Biochemical and Biophysical Research Communications</i> 196(3):1496-1503 (1993).	
<i>✓</i>	AY3	Chuntharapai, et al., "Generation of Monoclonal Antibodies to Chemokine Receptors," <i>Methods in Enzymology</i> 288:15027 (1997)	
<i>✓</i>	AZ3	Emrich, T., et al., "New monoclonal antibody against leucocyte specific G protein coupled receptor - useful e.g. as antiinflammatory agent and for diagnosis of immune status, tumours, etc.", Abstract for reference DE 4332256C1 (AP). (1985)	
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